## What is claimed is:

- 1. A process for treating a cytodegenerative disease comprising administering to a subject in need thereof a compound having cytoprotective activity comprising a hydroxy-substituted aromatic ring structure and a non-fused polycyclic, hydrophobic substituent attached thereto.
- 2. The process of claim 1 wherein the compound has the formula:

wherein n is 1 or 2,  $R^1$  is a non-fused polycyclic substituent, and  $R^2$  and  $R^3$  are independently selected from the group consisting of hydrogen, halogen, substituted or unsubstituted hydrocarbyl.

- 3. The process of claim 2 wherein  $R^2$  and  $R^3$  are bound to different carbon atoms, and further wherein  $R^2$  and  $R^3$  and the carbon atoms to which they are attached form a fused ring.
- 4. The process of claim 3 wherein said compound has the formula:

wherein: R¹ and R\* are independently selected from the group consisting of a non-fused, polycyclic hydrophobic

5 substituent, hydrogen, and substituted or unsubstituted alkyl, with the proviso that at least one of R¹ and R\* is a non-fused, polycyclic hydrophobic substituent; R¹³ is hydrogen or substituted or unsubstituted alkyl; and, R² is hydrogen, hydroxy, substituted or unsubstituted alkyl, or oxo.

- 5. The process of claim 4 wherein said non-fused polycyclic, hydrophobic substituent is adamantyl.
  - 6. The process of claim 5 wherein  $R^z$  is oxo.
- 7. The process of claim 6 wherein said compound has the formula:

$$R_1$$
 $H$ 
 $H$ 
 $H$ 

or

$$R_1$$
 $HO$ 
 $R_2$ 

and wherein  $R^{x}$  are as defined in claim 4.

- 8. The process of claim 7 wherein  $\ensuremath{R^x}$  is hydrogen or methyl.
- 9. The process of claim 8 wherein the compound has the formula:

$$R_1$$
 $H$ 
 $H$ 
 $H$ 
 $H$ 
 $H$ 
 $H$ 

10. The process of claim 8 wherein the compound has the formula:

11. The process of claim 4 wherein said compound has the formula:

or

wherein  $R^1$  and  $R^x$  are as defined in claim 4.

- 12. The process of claim 11 wherein  $R^1$  is adamantyl and  $R^{\times}$  is hydrogen, methyl or methylpropyl.
- 13. The process of claim 12 wherein the compound has the formula:

14. The process of claim 12 wherein the compound has the formula:

15. The process of claim 12 wherein the compound has the formula:

- 16. The process of claim 1 wherein the non-fused polycyclic, hydrophobic substituent is bicyclic.
- 17. The process of claim 16 wherein said substituent is selected from the group consisting of bicyclo[2.2.1]heptanyl and bicyclo[3.2.1]octanyl.
- 18. The process of claim 1 wherein the nonfused polycyclic, hydrophobic substituent is tricyclic.
- 19. The process of claim 18 wherein said substituent is adamantyl.
- 20. The process of claim 1 wherein the hydroxy-substituted, aromatic ring structure is polycyclic.
- 21. The process of claim 20 wherein the polycyclic ring structure is steroidal.
- 22. The process of claim 21 wherein the steroidal structure is phenolic.
- 23. The process of claim 22 wherein said polycyclic phenol is selected from the group consisting of estradiol, estratrienol and estrone.

- 24. The process of claim 23 wherein said polycyclic phenol is an estrone.
- 25. The process of claim 24, wherein said estrone is selected from 2-(1-adamantyl)-3-hydroxyestra-1,3,5(10)-trien-17-one, and 2-(1-adamantyl)-3-hydroxy-4-methylestra-1,3,5(10)-trien-17-one.
- 26. The process of claim 23 wherein said polycyclic phenol is an estradiol.
- 27. The process of claim 26 wherein said estradiol is selected from the group consisting of  $(17\beta)$ -2-(1-adamantyl)-estra-1,3,5(10)-triene-3,17-diol,  $(17\alpha)$ -2-(1-adamantyl)-estra-1,3,5(10)-triene-3,17-diol,  $(17\beta)$ -2-(1-adamantyl)-4-(1-methylpropyl)estra-1,3,5(10)-triene-3,17-diol,  $(17\alpha)$ -2-(1-adamantyl)-4-(1-methylpropyl)estra-1,3,5(10)-triene-3,17-diol, or an enantiomer thereof.
- 28. The process of claim 21 wherein the steroidal structure is catecholic.
- 29. The process of claim 28 wherein said polycyclic catechol is selected from the group consisting of 2-hydroxy-  $(17\beta)$ -estradiol, 2-hydroxy- $(17\alpha)$ -estradiol, or an enantiomer thereof.
- 30. The process of claim 1 comprising administering a pharmaceutical composition comprising said compound and a pharmaceutically acceptable carrier, excipient or diluent.
- 31. The process of claim 1 wherein said subject is an animal.
- 32. The process of claim 1 wherein said subject is a human.

- 33. A process for conferring cytoprotection on a population of cells, the process comprising administering to the population of cells a compound having cytoprotective activity comprising a hydroxy-substituted aromatic ring structure and a non-fused polycyclic, hydrophobic substituent attached thereto.
- 34. The process of claim 33 comprising administering a pharmaceutical composition comprising said compound and a pharmaceutically acceptable carrier, excipient or diluent.
- 35. The process of claim 34 wherein said cells are neurons.
- 36. A compound having cytoprotective activity, the compound having the formula:

wherein: n is 1 or 2;  $R^1$  is a non-fused polycyclic, hydrophobic substituent;  $R^x$  is selected from the group consisting of hydrogen and substituted or unsubstituted alkyl;  $R^{13}$  is hydrogen or substituted or unsubstituted alkyl; and,  $R^z$  is hydrogen, hydroxy, substituted or unsubstituted alkyl, or oxo, with the proviso that when the compound has the following structure:

- 10 Rx is not hydrogen.
  - 37. The compound of claim 36 wherein said compound has the formula:

$$R_1$$
 $H$ 
 $H$ 
 $H$ 
 $H$ 

or

$$R_1$$
 $HO$ 
 $R_X$ 

wherein  $R^1$  and  $R^{\times}$  are as defined in claim 36.

38. The compound of claim 36 wherein  $\mathbb{R}^1$  is adamantyl and  $\mathbb{R}^x$  is hydrogen or methyl.

39. The compound of claim 38 wherein the compound has the formula:

$$R_1$$
 $HO$ 
 $CH_3$ 

or the enantiomer thereof.

40. The compound of claim 38 wherein the compound has the formula:

or the enantiomer thereof.

41. The compound of claim 36 wherein said compound has the formula:

or

$$R_1$$
 $HO$ 
 $R_X$ 

wherein  $R^1$  and  $R^x$  are as defined in claim 36.

- 42. The compound of claim 41 wherein  $R^1$  is adamantyl and  $R^{\kappa}$  is hydrogen, methyl or methylpropyl.
- 43. The compound of claim 42 wherein the compound has the formula:

or the enantiomer thereof.

44. The compound of claim 42 wherein the compound has the formula:

or the enantiomer thereof.

45. The process of claim 42 wherein the compound has the formula:

or the enantiomer thereof.

46. A compound having cytoprotective activity, the compound having the formula:

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wherein:

the compound optionally has one or more unsaturated bonds in conjugation with the aromatic A-ring between C-6 and C-7, C-8 and C-9 or C-9 and C-11, with the proviso that when C-8 or C-9 is unsaturated, R<sup>y</sup> is not bound thereto;

n ranges from 1 to 3;

 $\mathbb{R}^1$  is a non-fused polycyclic, hydrophobic substituent;

 $\mathbb{R}^{x}$  is selected from the group consisting of hydrogen and substituted or unsubstituted alkyl;

 ${\ \, R}^{y}$  and  ${\ \, R}^{v}$  are independently selected from hydrogen, substituted or unsubstituted alkyl, halo, amido, sulfate, and nitrate;

p and q range from 1 to 3;

 $\mathbb{R}^{13}$  is hydrogen or substituted or unsubstituted hydrocarbyl, halo, amido, sulfate or nitrate;

 $R^z$  is hydrogen, hydroxy, substituted or unsubstituted alkyl, or oxo; and,

t ranges from 1 to 3;

with the proviso that when the compound has the following structure:

Rx is not hydrogen.

- 47. The compound of claim 46 wherein  $R^1$  is adamantyl.
- 48. The compound of claim 47 wherein a single  $R^z$  substituent is present on the D-ring at the C-17 position.
- 49. The compound of claim 48 wherein  $R^z$  is oxo, or alpha or beta hydroxy.

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- 50. The compound of claim 49 wherein  $\ensuremath{R^x}$  and  $\ensuremath{R^{13}}$  are methyl.
- 51. The compound of claim 50 wherein the configurations at C-8, C-9, C-13 and C-14 are alpha, beta, alpha, and beta, respectively.